

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:
F21V 35/00
A1
(11) International Publication Number: WO 95/24588
(43) International Publication Date: 14 September 1995 (14.09.95)
(21) International Application Number: PCT/DK95/00104 (81) Designated States: AM, AT, AT (Utility model), AU, BB, BG,

(22) International Filing Date:

7 March 1995 (07.03.95)

.

(30) Priority Data: 9400111

7 March 1994 (07.03.94)

DK

(71)(72) Applicant and Inventor: JØRGENSEN, Mogens, Christian [DK/DK]; Tåsingegade 64, 4. th., DK-2100 København Ø (DK).

(81) Designated States: AM, AT, AT (Utility model), AU, BB, BG, BR, BY, CA, CH, CN, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), ES, FI, FI (Utility model), GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, SK (Utility model), TJ, TT, UA, UG, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ, UG).

Published

With international search report.

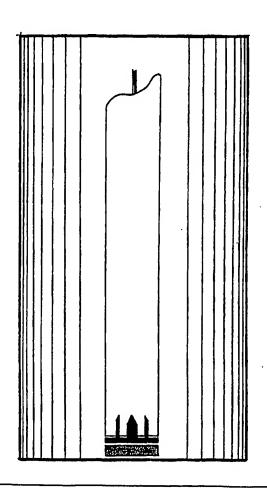
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

In English translation (filed in Danish).

(54) Title: MAGNETIC CANDLE HOLDER

(57) Abstract

The invention relates to a device for attaching a candle to a candle holder, comprising a magnet which is attached to the candle holder and a disk of magnetic material which is attached to the bottom end of the candle. The magnet can be permanently glued to the candle holder or attached with removable adhesive, and the magnetic disk can be attached to the candle by means of points which are embedded in the candle material.



FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AT	Austria	GB	United Kingdom	MR	Mauritania
AU	Australia	GE	Georgia	MW	Malawi
BB	Barbados	GN	Guinea	NE	Niger
BE	Belgium	GR	Greece	NL	Netherlands
BF	Burkina Faso	HU	Hungary	NO	Norway
BG	Bulgaria	IE	Ireland	NZ	New Zealand
BJ	Benin	IT	Italy	PL ·	Poland
BR	Brazil	JP	Japan	PT	Portugal
BY	Belarus	KE	Kenya	RO	Romania
CA	Canada	KG	Kyrgystan	RU	Russian Federation
CF	Central African Republic	KP	Democratic People's Republic	SD	Sudan
CG	Congo		of Korea	SE	Sweden
CH	Switzerland	KR	Republic of Korea	SI	Slovenia
CI	Côte d'Ivoire	KZ	Kazakhstan	SK	Slovakia
CM	Cameroon	· LI	Liechtenstein	SN	Senegal
CN	China	LK	Sri Lanka	TD	Chad
CS	. Czechoslovakia	LU	Luxembourg	TG	Togo
CZ	Czech Republic	LV	Latvia	TJ	Tajikistan
DE	Germany	MC	Monaco	TT	Trinidad and Tobago
DK	Denmark	MD	Republic of Moldova	UA	Ukraine
ES	Spain	MG	Madagascar	US	United States of America
FI	Finland	ML	Mali	UZ	Uzbekistan
FR	France	MN	Mongolia	VN	Viet Nam
GA	Gabon		-		

WO 95/24588 PCT/DK95/00104

MAGNETIC CANDLE HOLDER

₹

4

Technical field of the invention

The invention relates to a magnetic holder for attachment of candles to candlesticks, of existing or novel types, in which the attachment is difficult due to the size or shape of the candle holder.

Previously known solutions

The candle is pressed down into the candle holder.

The base of the candle is melted in order to fit into the candle holder.

Candle material is melted into the candle holder in order to "glue" the candle to the holder.

Aluminium sleeves for fitting between candle and holder.

Patent application No. DE 3 206 329, e.g. claim 3 and page 4, lines 9 - 12, discloses the attachment of a metal disc to a candle, in order to hold the candle by magnetic action. The claim is only valid for this single design.

The technical problem to be solved

The previously known methods of attachment are not stable.

The object of the invention is to provide a more stable and accessible attachment in the thousands of candlesticks of various designs where the stable and durable attachment of candles into candlesticks of previously known or novel designs is a global daily problem.

The magnetic candle holder is intended for detail merchandise as a set (magnet, spiked disc and adhesive), with which the customer can solve their candle attachment problems in a safe and invisible manner.

PC1/DK95/00104 WO 95/24588

The new solution

The novel feature of the invention is a safe and stable attachment of candles of a diameter smaller than the candle holder, or to novel designs of candlesticks without a traditional holder (figure 3a).

٠,

Creative possibilities of decoration.

Attachment to other materials, e.g. stone, wood or in a bowl of water.

The technical effect

In the following, the invention and its use are explained referring to the drawings.

The magnetic candle holder consists of three separate parts:

A is a circular magnet with a flat top and a flat or rounded bottom, which is attached to the bottom of the candle holder.

B is a circular disc of magnetic material, in which three spikes, extending from the centre of the disc, are punched. The spiked disc is attached to the candle by pressing the spikes into the centre of the candle. The candle and the disc are then mounted onto the magnet.

With hard or brittle candle materials, a slight heating of the spikes can be necessary.

C is a measured amount of adhesive for attachment of the magnet.

The figures

Figure 1 shows a candle holder of previously known type, in which the diameter of the candle is smaller than the diameter of the candle holder, leading to attachment problems.

Figure 2 shows a candle holder of a previously known type, in which a magnet is attached (glued) to the bottom of the candle holder and a spiked disc is attached to the bottom of the candle.

Figure 3a shows the use of the invention on candles of small or large diameter in a candlestick of novel design.

Figure 3b shows the use of a cup-type candle in a candlestick of novel design. The cup of the candle is not made of magnetic material, but the wick holder in the bottom of the candle is.

Therefore, the candle will be attracted by the magnet.

Figure 4 shows the spiked disc in plan, elevation and perspective views.

Figure 5 is intended to accompany the abstract.

Embodiments of the invention

۲

٤,

•

4

Figure 1 shows the unstable attachment of candles in a candle holder of previously known type, in which the diameter of the candle holder is too large.

Figure 2 shows the use of the magnetic candle holder for solving the problem indicated in figure 1.

Figure 3a shows the use of the magnetic candle holder for attachment of candles of differing diameters in a candlestick of novel design.

Figure 3b shows the attachment of cup-type candles in a candlestick of novel design.

Figure 4 shows the spiked disc in plan, elevation and perspective views. The spiked disc can be produced by stamping or impression.

,

ζ,

Claim

Magnetic holder for candles consisting of a magnet (A) attached to a candlestick of previously known or novel design, a spiked disc (B) of magnetic material attachable to the bottom of a candle and an adhesive (C) for attachment of the magnet.

The candle with the spiked disc is placed on top of the magnet, which holds the spiked disc, and thus also the candle, stably fixed.

The claim also covers a larger or smaller number of spikes on the spiked disc, or any screw function for attachment of a disc of magnetic material to the candle material.

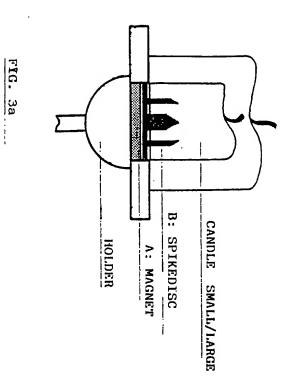
Any mechanical attachment (object fixed in the candle material for attachment of a disc of magnetic material).

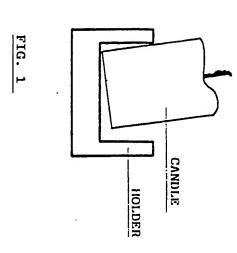
Any chemical attachment (gluing of the candle material to the disc of magnetic material).

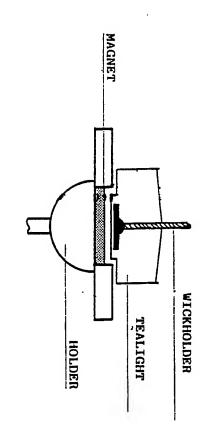
Any mass production of candles involving the moulding of a disc of magnetic material into the candles.

Ť

(

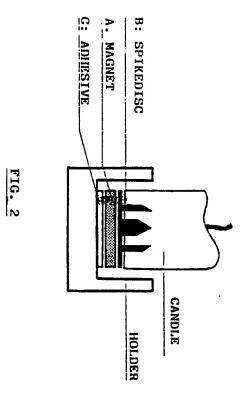




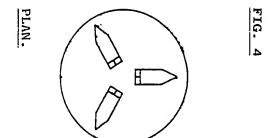


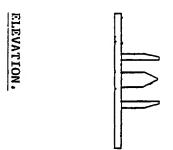
F1.0. 3b

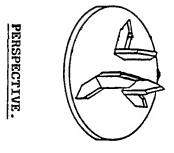
7

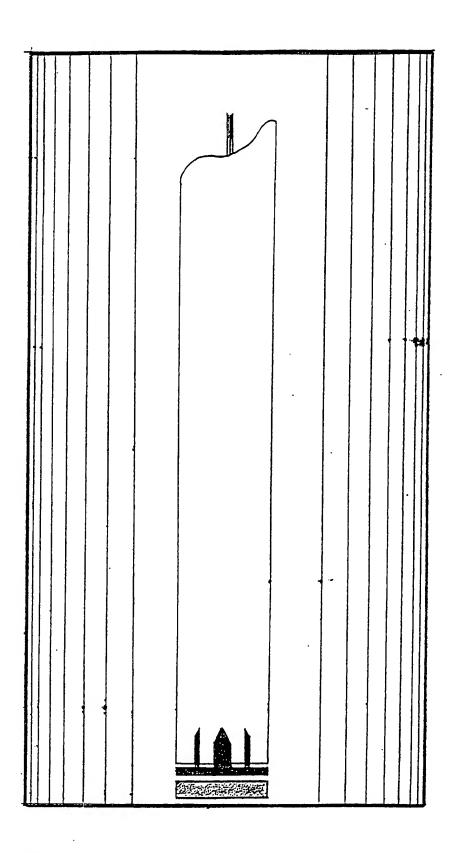


?









<u>FIG. 5.</u>

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: F21V 35/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: F21V

1

į

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 4037398 A1 (JÄNIG), 27 May 1992 (27.05.92), column 2, line 14 - line 25; column 2, line 64 - column 3, line 6, figures 2,7,8,12	1
		
Х	DE 3206329 A1 (FORMA GLAS GMBH & CO. KG), 1 Sept 1983 (01.09.83), figure 1, claim 3	1
Х	FR 1336107 A (MERCIER), 22 July 1963 (22.07.63), figures 1,2	1
A	DE 3132960 A1 (MURATA), 21 October 1982 (21.10.82)	1
	·	

χ See patent family annex.

- Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" ertier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

+46 8 782 25 00

Date of the actual completion of the international search

1 0 -07- 1995

6 July 1995

Name and mailing address of the ISA/
Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Date of mailing of the international search report

1 0 -07- 1995

Authorized officer

Anders Bruun

Telephone No.

Form PCT/ISA/210 (second sheet) (July 1992)

Facsimile No. +46 8 666 02 86

29/05/95	PUI/UK	33/00104
20, 11, 11		

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE-A1-	4037398	27/05/92	NONE	
DE-A1-	3206329	01/09/83	NONE	
FR-A-	1336107	22/07/63	NONE	
DE-A1-	3132960	21/10/82	NONE	